

MATERIAL SAFETY DATA SHEET

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAMES:

Green Light MSMA Crabgrass Killer

Green Light MSMA Crabgrass Killer

Size Prod #

Pint 07316

Quart 07332



GENERAL USE: Herbicide

PRODUCT DESCRIPTION: Clear to light green liquid, odorless.

EPA Reg. No. 50534-6-869

DISTRIBUTOR'S NAME

Green Light Company

DATE PREPARED: March 4, 2002

SUPERSEDES: February 24, 2002

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ADDRESS (NUMBER, STREET, P.O. BOX)

P.O. Box 17985

TELEPHONE NUMBER FOR INFORMATION

(210) 494-3481

(CITY, STATE AND ZIP CODE)

San Antonio, TX 78217-0985

COUNTRY

USA

EMERGENCY TELEPHONE NUMBER

Infotrac (800) 535-5053 Outside USA (352) 323-3500

MANUFACTURER'S NAME

ISK Biosciences Corporation

ADDRESS (NUMBER, STREET, P.O. BOX)

5966 Heisley Road

TELEPHONE NUMBER FOR INFORMATION

(216) 357-4100

(CITY, STATE AND ZIP CODE)

Mentor, OH 44060-8000

COUNTRY

USA

EMERGENCY TELEPHONE NUMBER

(216) 357-7070

SECTION 2 - HAZARDOUS INGREDIENTS

HAZARDOUS COMPONENTS	CAS #	%	OSHA PEL		ACGIH TWA		SARA TITLE III	RQ LBS
			PPM	MG/M ³	PPM	MG/M ³		
Monosodium acid methanearsonate (a)	2163-80-6	48.3	not established				Yes	

(a) See Section 15

SECTION 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Avoid breathing mist and/or vapor. May cause eye and skin irritation. Do not get in eyes or on skin. Wash thoroughly after handling. Wear goggles or face shield, rubber gloves, and protective clothing when handling. Hazard symbols - Xn. Risk phrase - R28

POTENTIAL HEALTH EFFECTS

INHALATION: Inhalation of mists or vapors may cause irritation to upper respiratory tract and mucous membranes. Prolonged inhalation of this product may cause irritation to the lungs.

SKIN: Prolonged contact with skin may cause irritation, dermatitis.

EYES: Contact with eyes may cause pain and irritation. Repeated contact with eyes may cause conjunctival irritation.

INGESTION: This substance is slightly toxic to internal organs if swallowed. Signs and symptoms may include, but may not be limited to, headache, dizziness, weakness, nausea, vomiting, diarrhea and abdominal cramps.

CARCINOGENICITY

NTP?

No

IARC MONOGRAPHS?

No

OSHA REGULATED?

No

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SECTION 4 - FIRST AID MEASURES

INHALATION: Remove affected person to fresh air; wash mouth and nasal passages with water repeatedly; if breathing difficulties persist seek medical attention.

SKIN: Wash contacted area with soap and water; DO NOT attempt to neutralize with chemical agents; if irritation persists, seek medical attention.

EYES: Remove contact lenses. Immediately flush eyes for 15 minutes in clear running water while holding eyelids open; seek medical attention immediately.

INGESTION: If swallowed, call a physician of Poison Control Center immediately. Drink 1 or 2 glasses of water and induce vomiting by touching the back of throat with a finger. Do not give anything by mouth to an unconscious or convulsing person.

SECTION 5 - FIRE FIGHTING MEASURES

FLASH POINT (METHOD USED)

Non-flammable

FLAMMABLE LIMITS

LEL: Not applicable

UEL: Not applicable

AUTOIGNITION TEMPERATURE: Not determined

NFPA CLASS: **None**

GENERAL HAZARDS: Product is not considered flammable or combustible. Products of combustion include compounds of carbon, hydrogen and oxygen, including carbon monoxide.

EXTINGUISHING MEDIA

Carbon dioxide, or dry chemical. Avoid using water or chemical foam to prevent spreading of material.

FIRE FIGHTING PROCEDURES

Keep containers cool with water spray to prevent container rupture due to steam buildup.

UNUSUAL FIRE AND EXPLOSION HAZARDS

None

HAZARDOUS COMBUSTION PRODUCTS

Smoke, toxic fumes, oxides of carbon

SECTION 6 - ENVIRONMENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Confine and absorb into approved absorbent; place material into approved containers for disposal; refer to SARA Title III, Section 313, 40 CFR 372 for complete regulations concerning reporting requirements.

SECTION 7 - HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Keep container closed when not in use; protect containers from abuse; protect from extreme temperatures. Keep this and other chemicals out of reach of children.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS

The use of local exhaust ventilation is recommended. No other special controls are indicated.

PERSONAL PROTECTION:

RESPIRATORY PROTECTION (SPECIFY TYPE): None required while threshold limits are kept below maximum allowable concentrations; if TWA exceeds standard workplace limits, NIOSH approved respirator must be worn. Refer to 29 CFR 1910.134 or European Standard EN 149 for complete regulations.

PROTECTIVE GLOVES: Neoprene or rubber gloves with cuffs.

EYE PROTECTION: Goggles with side shields; safety eyebath nearby. Refer to 29 CFR 1910.133 or European Standard EN166.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Coveralls, apron, or other equipment should be worn to minimize skin contact.

WORK / HYGIENIC PRACTICES: Practice safe workplace habits. Minimize body contact with this, as well as all chemicals in general.

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SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

VAPOR PRESSURE (MM Hg) < 0.1 mm Hg @ 20 ° C	VAPOR DENSITY (AIR = 1) Not determined
SPECIFIC GRAVITY (WATER = 1) 1.510	EVAPORATION RATE (WATER = 1) Not determined
SOLUBILITY IN WATER Complete	FREEZING POINT -26° F (-32° C)
pH 5.7 - 6.7	APPEARANCE AND ODOR Clear to light green liquid, odorless
BOILING POINT 226° F (108° C)	PHYSICAL STATE Liquid
VISCOSITY Not determined	VOLATILE ORGANIC COMPOUNDS (Total VOC's) None

SECTION 10 - STABILITY AND REACTIVITY

STABILITY UNSTABLE: STABLE: XXX	CONDITIONS TO AVOID: Extreme temperatures
INCOMPATIBILITY (MATERIALS TO AVOID): Arsenic, in the presence of acids and metals such as aluminum, zinc, copper and tin, can combine with nascent hydrogen to form arsine gas, which is a highly poisonous, colorless, nonirritating gas with a mild garlic odor.	
HAZARDOUS DECOMPOSITION OR BYPRODUCTS: Decomposition will not occur if handled and stored properly. In case of a fire, oxides of carbon, hydrocarbons, fumes, and smoke may be produced.	
HAZARDOUS POLYMERIZATION MAY OCCUR: WILL NOT OCCUR: XXX	CONDITIONS TO AVOID: None

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazardous Ingredients	%	CAS #	LD50 of Ingredient (Specify Species and Route)	LC50 of Ingredient (Specify Species)
Monosodium acid methanearsonate (a)	48.3	2163-80-6	1580 mg / kg Oral - rat	> 20 mg / L / 4H Inhalation - rat

SECTION 12 - ECOLOGICAL INFORMATION

Do not feed treated foliage to livestock or graze treated areas. Do not spray or allow to drift onto vegetables, ornamentals or other desirable plants. Do not apply when weather conditions favor drift from target area. Do not apply directly to water. Do not contaminate water by cleaning of equipment or disposal of wastes.

SECTION 13 - DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Dispose of in accordance with Local, State, and Federal Regulations. This product should not be discharged into soil, lakes, ponds, streams or public waters. Products classified as non - hazardous may become hazardous waste upon contact with other products. Refer to "40 CFR Protection of Environment Parts 260 - 299" for complete waste disposal regulations. Consult your local, state, or Federal Environmental Protection Agency before disposing of any chemicals.

SECTION 14 - TRANSPORT INFORMATION

PROPER SHIPPING NAME: Not Regulated

DOT HAZARD CLASS / Pack Group: Not regulated
REFERENCE: Not Applicable
UN / NA IDENTIFICATION NUMBER: None
LABEL: None Required
HAZARD SYMBOLS: None

IATA HAZARD CLASS / Pack Group: Not regulated
IMDG HAZARD CLASS: Not regulated
RID/ADR Dangerous Goods Code: Not regulated
UN TDG Class / Pack Group: Not regulated

Note: Transportation information provided is for reference only. Client is urged to consult CFR 49 parts 100 - 177, IMDG, IATA, EC, United Nations TDG, and WHMIS (Canada) TDG information manuals for detailed regulations and exceptions covering specific container sizes, packaging materials and methods of shipping.

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SECTION 15 - REGULATORY INFORMATION

TSCA (Toxic Substance Control Act)

Components of this product are listed on the TSCA Inventory.

SARA TITLE III (Superfund Amendments and Reauthorization Act)

311/312 Hazard Categories

Health, acute, chronic

313 Reportable Ingredients:

(a) Indicates a toxic chemical subject to annual reporting requirements of Section 313 of SARA Title III of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372.

CERCLA (Comprehensive Response Compensation and Liability Act)

None

EPA (Environmental Protection Agency)

Use of this product is regulated by the U.S. Environmental Protection Agency (EPA) through the approved label copy. It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

CPR (Canadian Controlled Products Regulations)

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations

IDL (Canadian Ingredient Disclosure List)

Components of this product identified by CAS number and listed on the Canadian Ingredient Disclosure List are shown in Section 2.

DSL / NDSL (Canadian Domestic Substances List / Non-Domestic Substances List)

Components of this product identified by CAS number are listed on the DSL or NDSL and may or may not be listed in Section 2 of this document. Only ingredients classified as "hazardous" are listed in Section 2 unless otherwise indicated.

EINECS (European Inventory of Existing Commercial Chemical Substances)

Components of this product identified by CAS numbers are on the European Inventory of Existing Commercial Chemical Substances.

EC Risk Phrases

R28 Very toxic if swallowed.

EC Safety Phrases

S2 Keep out of the reach of children.

S24 Avoid contact with skin.

S25 Avoid contact with eyes.

SECTION 16 - OTHER INFORMATION

No specific notes

HMIS HAZARD RATINGS

HEALTH

1

0 = INSIGNIFICANT

3 = HIGH

FLAMMABILITY

0

1 = SLIGHT

4 = EXTREME

REACTIVITY

0

2 = MODERATE

PERSONAL PROTECTIVE EQUIPMENT C

Safety Glasses, Gloves, Apron

REVISION SUMMARY:

This MSDS has been revised in the following sections:

Section 14

Transportation information

Section 15

WHMIS DSL / NDSL information

MSDS Prepared by: Comprehensive Data Base, Inc.

P.O. Box 5604

Lakeland, FL 33807 USA

(863) 644 - 3298 www.compdatabase.com

The information contained herein is believed to be accurate but is not warranted to be so. Data and calculations are based on information furnished by the manufacturer of the product and manufacturers of the components of the product. Users are advised to confirm in advance of need that information is current, applicable and suited to the circumstances of use. Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, vendor assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety procedures are followed. Any questions regarding this product should be directed to the manufacturer of the product as described in Section 1.